

Slimline PCB Relay PCN

- 1 pole 3 A, 1 NO contact
- Only 5 mm wide
- 3 A switching current; 5 A version available
- Load range 1 mA up to 3 A
- Sensitive coil 120 mW
- Allows high function- / packing density
- **■** Cadmium-free contacts
- Z type with reinforced insulation



300

200

100

Applications

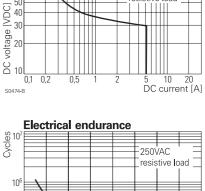
Centralized and decentralized heating control, extremely narrow interface elements, interface technology, timers, PLC's, I/O modules, I/O-ports

Αp	provals
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Contact data	
Contact configuration	1NO
Contact set	bifurcated contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250/277 VAC
Rated current	3 A
Limiting continuous current	3 A
Maximum breaking capacity AC	750 VA
Limiting making capacity, max 4 s, duty factor 10%	5 A
Contact material	AgNi90/10
Minimum contact load	5V / 1mA
Rated frequency of operation with / without load	10 / 600 min ⁻¹
Operate- / release time	max. 8/3 ms
Bounce time NO / NC contact	max. 2/2 ms

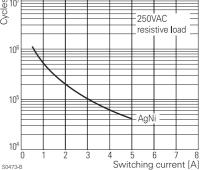


Туре	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
PCN-1D3MHZ	NO	3 A, 250 VAC, cosφ=1	70°C	100x10 ³
PCN-1D3MHZ-001	NO	5 A, 250 VAC, cosφ=1	85°C	30x10 ³
UL 508		·		
PCN-1D3MHZ	NO	3 A, 250 VAC, resistive	25°C	100x10 ³
PCN-1D3MHZ	NO	Pilot duty, B300	25°C	6x10 ³
PCN-1D3MHZ	NO	Pilot duty, R300	25°C	6x10 ³
PCN-1D3MHZ	NO	9 A LRA, 1,5A FLA, 240 VAC	45°C	30x10 ³



Max. DC load breaking capacity

e load

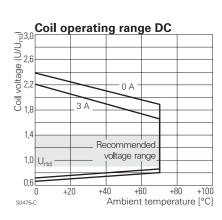


Coil data	
Rated coil voltage range DC coil	524 VDC
Operative range to IEC 61810	1

Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.5	0.5	208±10%	120
006	6	4.2	0.6	300±10%	120
009	9	6.3	0.9	675±10%	120
012	12	8.4	1.2	1200±10%	120
024	24	16.8	2.4	4800±10%	120

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request



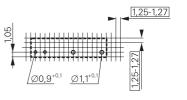


Slimline PCB Relay PCN (Continued)

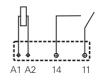
Insulation		
Dielectric strength coil-contact circuit	3000 V _{rms}	
open contact circuit	$750 V_{rms}$	
Clearance / creepage coil-contact circuit	\geq 3,5 / 3,5 mm	
Material group of insulation parts	I	
Tracking index of relay base	PTI 600	
Insulation to IEC 61810-1		
Type of insulation coil-contact circuit	reinforced	
open contact circuit	micro disconnection	
Rated insulation voltage	320 V	
Pollution degree	2	
Rated voltage system	277 V	
Overvoltage category as basic insulation	III	
Overvoltage category as reinforced insulation	II	

PCB layout / terminal assignment

Bottom view on solder pins

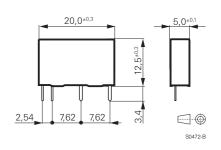


S0471-AA



S0471-AB

Dimensions



Other data 20x10⁶ cycles Mechanical endurance Material RoHS - Directive 2002/95/EC compliant as per product date code 0424 Environment -30...+70 °C Ambient temperature range Vibration resistance (function) NO / NC contact Shock resistance (function) NO / NC contact 10 g 10 g Shock resistance (destruction) 100 g Category of protection RTIII - wash tight Processing Mounting Mounting position pcb any Minimum mounting distance ≥ 0 mm Resistance to soldering heat wash tight version 260°C / 5 s 3 g Relay weight Packaging unit 25 / 2000 pcs

Product key	Typical product key	PCN	-1	06	D	3	M	Н	Z	
Type PCN Slim PCB F	Relay PCN									
Number of contacts 1 1 pole										
Coil Code: please	e refer to coil versions table									
Coil version D standard 120) mW									
Contact material 3 AgNi						1				
Contact configuration M 1 NO contact	t (1 form A)						J			
Version H wash tight	,							J		
Insulation	stance of relay base PTI 600									
Version Blank 3 A vers	·	5 A ver	sion							J

Other types on request

Product key	Contacts	Coil	Coil	Contacts	Version	Part number
PCN-105D3MHZ	1-pole	5 VDC	standard	1 NO contact	wash tight	3-1461491-0
PCN-106D3MHZ	·	6 VDC	120 mW	AgNi	high insulation	3-1461491-1
PCN-112D3MHZ		12 VDC				3-1461491-3
PCN-124D3MHZ		24 VDC				3-1461491-6

change.